**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L8 | 2 | "10599609" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L9 | 10 | ("20030160250" \| "20030185135" \| "4864119" \| "5451769" \| "6236033").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L10 | 4 | ("2003/0185135").URPN. | USPAT | OR | OFF | 2010/01/16 16:41 |
| L11 | 74 | ("3866037" \| "4360273" \| "4405238" \| "4411013" \| "4556790" \| "4659429" \| "4662747" \| "4815854" \| "4891830" \| "5250812" \| "5306902" \| "5351127" \| "5354985" \| "5451980" \| "5570139" \| "5633972" \| "5663798" \| "5789742" \| "5933233" \| "5973316" \| "6040936" \| "6052238").PN. OR ("6236033").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L12 | 56 | ("20030123125" \| "20030128949" \| "20030173501" \| "20050068541" \| "20050161589" \| "20050175939" \| "20060039009" \| "20060083350" \| "4410454" \| "4659429" \| "4662747" \| "4815854" \| "4891830" \| "4997278" \| "5202939" \| "5250812" \| "5306902" \| "5351127" \| "5354985" \| "5359681" \| "5451980" \| "5455594" \| "5550373" \| "5570139" \| "5633972" \| "5647030" \| "5663798" \| "5666195" \| "5784507" \| "5789742" \| "5835645" \| "5864641" \| "5933233" \| "5946083" \| "5973316" \| "5986808" \| | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |

| | | "6014251" \| "6040936" \|<br>"6044981" \| "6052238" \|<br>"6097456" \| "6111248" \|<br>"6147756" \| "6151114" \|<br>"6191847" \| "6236033" \|<br>"6282005" \| "6285020" \|<br>"6326004" \| "6441298" \|<br>"6514936" \| "6525880" \|<br>"6539156" \| "6797405" \|<br>"7319560").PN. OR<br>("7426040").URPN. | | | | |
|---|---|---|---|---|---|---|
| L13 | 1878 | 257/292.ccls. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L14 | 1376 | L13 and @ad< "20061003" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L15 | 165 | 369/112.21.ccls. and<br>@ad<"20061003" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L16 | 344902 | (((photo light) near3<br>(sensor detector))<br>photodiode) and<br>@ad< "20061003" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L17 | 655968 | (conduct$3 or metal) with<br>(aperture open$3) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L18 | 213562 | (semiconductor near layer) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |
| L19 | 348217 | (((photo light) near3<br>(sensor detector))<br>photodiode photo-diode)<br>and @ad< "20061003" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/01/16<br>16:41 |

| L20 | 1091 | L17 and L18 and L19 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|-----|------|---------------------|---------|----|----|------------------|
| L21 | 728 | L20 and wavelength | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L22 | 201 | L21 and periodic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L23 | 332 | L21 and (periodic waveguide) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L24 | 327 | L23 and light | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L25 | 332 | L23 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L26 | 281 | L25 and (electrode or (anode cathode)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L27 | 5 | ("5308779" \| "5663078" \| "5840602" \| "6429145" \| "6846715").PN. OR ("7288446").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L28 | 8 | ("3849678" \| "5132541" \| "5448099").PN. OR ("6774448").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |

| L29 | 10 | ("20030160250" \| "20030185135" \| "4864119" \| "5451769" \| "6236033").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
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| L30 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L31 | 3 | "2003287656" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L32 | 10 | ("2629800" \| "3448351").PN. OR ("4864119").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L33 | 13 | ("4037244" \| "4438331" \| "4525732" \| "4782222" \| "4803695" \| "4806997" \| "4864119" \| "4891815" \| "4894526" \| "5023685" \| "5028971" \| "5049965" \| "5150185").PN. OR ("5554882").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L34 | 2 | ("20030185135").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L35 | 4 | ("2003/0185135").URPN. | USPAT | OR | OFF | 2010/01/16 16:41 |
| L36 | 0 | ("2003/160250").URPN. | USPAT | OR | OFF | 2010/01/16 16:41 |
| L37 | 2 | ("2003160250").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L38 | 2 | "5451769".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |

| L39 | 30 | ("2668184" \| "2897421" \| "2898525" \| "3440427" \| "3622844" \| "4593304" \| "4626884" \| "4807006" \| "4999695" \| "5045681" \| "5214275" \| "5222162" \| "5222175").PN. OR ("5451769").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
|-----|-----|-----|-----|-----|-----|-----|
| L40 | 0 | "2000222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L41 | 0 | "200222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L42 | 0 | "2000222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L43 | 348217 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L44 | 1325 | L43 and (scatter$3 with metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L45 | 348217 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L46 | 1325 | L45 and (scatter$3 with metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L47 | 43 | L46 and ((impurity dop$3) with (lower higer greater)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L48 | 17261 | L45 and (optical near fiber) and (amplifier or (pre near amplifier)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L49 | 107 | L46 and (optical near fiber) and (amplifier or (pre near amplifier)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L50 | 3 | ("20010004348" \| "20030066944").PN. OR ("6689545").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L51 | 348217 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L52 | 159 | L51 and ((scatter$3 with metal) same (aperture hole open$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L53 | 125006 | (photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L54 | 76 | L53 and ((scatter$3 with metal) same (aperture hole open$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L55 | 125006 | (photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L56 | 14239 | L55 and (optic$2 near fiber) and (amplifier preamplifier) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L57 | 753 | L56 and ((conduct$3 or metal) with (aperture open $3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L58 | 62 | L57 and (scatter$3 same metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L59 | 6 | ("20020048301").PN. OR ("6741629").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L60 | 348217 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L61 | 22079 | L60 and (optic$2 near fiber) and (amplifier preamplifier) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L62 | 2939 | L60 and (((optic$2 near fiber) and (amplifier preamplifier)) same (case package)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L63 | 1367 | L62 and coupler | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L64 | 5523 | photodiode and coupler and amplifier and source | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L65 | 4751 | L64 and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L66 | 2549 | L55 and (optic$2 near fiber) and ((amplifier preamplifier) with (amplif $4 with electrical with signal)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L67 | 97521 | (photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|-----|-------|---------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| L68 | 1942 | L67 and (optic$2 near fiber) and ((amplifier preamplifier) with (amplif$4 with electrical with signal)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L69 | 13 | ("4037244" \| "4438331" \| "4525732" \| "4782222" \| "4803695" \| "4806997" \| "4864119" \| "4891815" \| "4894526" \| "5023685" \| "5028971" \| "5049965" \| "5150185").PN. OR ("5554882").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L70 | 3274 | photodiode and coupler and amplifier and (light near source) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L71 | 0 | photodiode and coupler and (pre-amplifier with amplify with electrical with signal) and (light near source) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L72 | 1 | photodiode and coupler and (pre-amplifier with amplify with electrical with signal) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L73 | 103 | L67 and (optic$2 near fiber) and ((preamplifier) with (amplif$4 with electrical with signal)) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L74 | 23 | L67 and (optic$2 near fiber) and ((preamplifier) with (amplif$4 with electrical with signal)) and (coupler) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L75 | 128 | L67 and (optic$2 near fiber) and (((preamplifier same (photodiode photo near detector)) same (case package enclosure))) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|-----|-----|-----|-----|-----|-----|-----|
| L76 | 16 | L75 and coupler | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L77 | 2 | ("20040151442").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L78 | 274557 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L79 | 439639 | (conduct$3 or metal) near4 (aperture open$3 hole) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L80 | 927 | L78 and L79 and (periodic waveguide) and wavelength | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L81 | 915 | L80 and (incident (ray light)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L82 | 715 | L81 and semiconductor | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L83 | 1489 | (aperture open$3 hole) with wavelength with (incident near2 (light ray)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L84 | 22 | L82 and L83 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|---|---|---|---|---|---|---|
| L85 | 10 | ("20010006435" \| "20020001283" \| "20030112542" \| "20040131001" \| "6307827" \| "6359852" \| "6445453" \| "6614742" \| "6818907").PN. OR ("7085220").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L86 | 391 | (schottky near2 (photodiode photo-diode)) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L87 | 156 | L86 and (semiconductor near2 (film layer)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L88 | 138 | L87 and (metal or conductive) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L89 | 117 | L88 and (aperture open$3 hole) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L90 | 21 | L89 and (wavelength with (incident near2 light ray)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L91 | 97521 | (photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L92 | 130 | L91 and L83 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|-----|-----|-------------|------|----|----|------|
| L93 | 13 | L92 and periodic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L94 | 3640 | (aperture open$3 hole) with (wavelength with (incident near2 light ray)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L95 | 1 | L86 and L94 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L96 | 97521 | (photodiode photo-diode) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L97 | 213 | L96 and L94 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L98 | 6 | ((junichi near fujikata) or (hitoshi near yokota) or (tsutomu near ishi)).in. and (photodiode photo $1diode) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L99 | 1 | "2003529438" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2010/01/16 16:41 |
| L100 | 1 | ("2003529438").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L101 | 1 | ("2003529438").PN. | DERWENT | OR | OFF | 2010/01/16 16:41 |

| L102 | 3 | ("2004247640").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L103 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L104 | 0 | ("6236033.pn.").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L105 | 2 | "6236033".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L106 | 2 | "4864119".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
| L107 | 10 | ("2629800" | "3448351").PN. OR ("4864119").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2010/01/16 16:41 |
| L108 | 13 | (near$1field near4 (photodiode photo-diode)) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L109 | 50 | (near$1field with (photodiode photo-diode)) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L110 | 37 | L109 not L108 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |

| L111 | 2 | "6236033".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
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| L112 | 2 | "6649901".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L113 | 2 | "6285020".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L114 | 170 | (photodiode photo$1diode) and (first near optical near fiber) and (second near optical near fiber) and (light near source) and board and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L115 | 2 | L114 and (first near optical near coupler) and (second near optical near coupler) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L116 | 30 | L114 and (optical near coupler) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L117 | 10 | (photodiode photo$1diode photodetector photo $1detector) and (first near optical near fiber) and (second near optical near fiber) and (light near source) and (mount$3 near board) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L118 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |

| L119 | 6 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) near4 (Silver Ag Gold Au)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
|------|---|---|---|---|---|---|
| L120 | 4 | L119 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L121 | 6 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) with (Silver Ag Gold Au)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L122 | 13 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) same (Silver Ag Gold Au)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L123 | 285 | (photodiode photo$1diode photodetector photo $1detector) and (Scatter$3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L124 | 14 | (photodiode photo$1diode photodetector photo $1detector) with (Scatter $3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L125 | 38 | (photodiode photo$1diode photodetector photo $1detector) same (Scatter $3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L126 | 358182 | (((photo light) near3 (sensor detector)) photodiode) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |

| L127 | 306208 | (((photo light) near3 (sensor detector)) photodiode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 16:41 |
|------|--------|---------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| L128 | 136 | L126 same (Scatter$3 adj (layer film member)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L129 | 122 | L128 and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 16:41 |
| L130 | 2 | ("20030164922").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 17:27 |
| L131 | 3 | ((KEISHI) near2 (OOHASHI)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/01/16 17:42 |
| L132 | 57 | ((TSUTOMU) near2 (ISHI)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/01/16 17:44 |
| L133 | 20 | ((TOSHIO) near2 (BABA)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/01/16 17:45 |
| L134 | 36 | ((JUNICHI) near2 (FUJIKATA)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/01/16 17:46 |
| L135 | 13 | ((KIKUO) near2 (MAKITA)).INV. | US-PGPUB; USPAT | OR | OFF | 2010/01/16 17:47 |
| L136 | 741 | 257/233.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2010/01/16 17:48 |
| L137 | 66 | 257/292.ccls. and (wavelength with (incident near2 (light ray))) and (aperture hole open) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:55 |
| L138 | 28 | 257/292.ccls. and (wavelength with (incident near2 (light ray))) and (aperture hole open) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:56 |

| L139 | 17 | 257/462.ccls. and (wavelength with (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:57 |
| L140 | 1 | 257/e31.058.ccls. and (wavelength with (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:58 |
| L141 | 7 | 257/e31.058.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:59 |
| L142 | 56 | 257/e31.063.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 17:59 |
| L143 | 24 | 257/e31.115.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:01 |
| L144 | 29 | 257/e25.032.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:02 |
| L145 | 159 | 257/e27.133.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:03 |
| L146 | 68 | 257/e27.134.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:04 |
| L147 | 30 | 257/e27.135.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:07 |

| L148 | 40 | 257/e27.136.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:09 |
|---|---|---|---|---|---|---|
| L149 | 16 | 257/e27.137.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:10 |
| L150 | 11 | 257/e27.138.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:11 |
| L151 | 11 | 257/e27.139.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:11 |
| L152 | 11 | 257/e33.076.ccls. and (wavelength and (incident near2 (light ray))) and (aperture hole open) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/01/16 18:12 |
| L153 | 0 | (photodiode incident light optical fiber conductive film aperture wavelength periodic structure resonant state surface plasmon semiconductor layer near field light).clm. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2010/01/16 18:37 |
| S1 | 1 | "10599609" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/03 20:19 |
| S2 | 10 | ("20030160250" \| "20030185135" \| "4864119" \| "5451769" \| "6236033").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/03 23:19 |
| S3 | 4 | ("2003/0185135").URPN. | USPAT | OR | OFF | 2008/12/03 23:24 |

| S4 | 68 | ("3866037" \| "4360273" \| "4405238" \| "4411013" \| "4556790" \| "4659429" \| "4662747" \| "4815854" \| "4891830" \| "5250812" \| "5306902" \| "5351127" \| "5354985" \| "5451980" \| "5570139" \| "5633972" \| "5663798" \| "5789742" \| "5933233" \| "5973316" \| "6040936" \| "6052238"). PN. OR ("6236033").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/03 23:25 |
| S5 | 55 | ("20030123125" \| "20030128949" \| "20030173501" \| "20050068541" \| "20050161589" \| "20050175939" \| "20060039009" \| "20060083350" \| "4410454" \| "4659429" \| "4662747" \| "4815854" \| "4891830" \| "4997278" \| "5202939" \| "5250812" \| "5306902" \| "5351127" \| "5354985" \| "5359681" \| "5451980" \| "5455594" \| "5550373" \| "5570139" \| "5633972" \| "5647030" \| "5663798" \| "5666195" \| "5784507" \| "5789742" \| "5835645" \| "5864641" \| "5933233" \| "5946083" \| "5973316" \| "5986808" \| "6014251" \| "6040936" \| "6044981" \| "6052238" \| "6097456" \| "6111248" \| "6147756" \| "6151114" \| "6191847" \| "6236033" \| "6282005" \| "6285020" \| "6326004" \| "6441298" \| "6514936" \| "6525880" \| "6539156" \| "6797405" \| "7319560").PN. OR ("7426040").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/03 23:27 |
| S6 | 1520 | 257/292.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 14:43 |

| S7 | 1283 | S6 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 14:45 |
|---|---|---|---|---|---|---|
| S8 | 163 | 369/112.21.ccls. and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 14:58 |
| S9 | 336407 | (((photo light) near3 (sensor detector)) photodiode) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 15:23 |
| S11 | 624368 | (conduct$3 or metal) with (aperture open$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:06 |
| S12 | 191627 | (semiconductor near layer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:08 |
| S13 | 339681 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:09 |
| S14 | 1041 | S11 and S12 and S13 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:09 |
| S15 | 700 | S14 and wavelength | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:10 |
| S16 | 195 | S15 and periodic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:11 |

| S17 | 325 | S15 and (periodic waveguide) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:11 |
|-----|-----|------|------|------|------|------|
| S18 | 320 | S17 and light | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:11 |
| S19 | 325 | S17 and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:12 |
| S20 | 275 | S19 and (electrode or (anode cathode)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:14 |
| S21 | 5 | ("5308779" \| "5663078" \| "5840602" \| "6429145" \| "6846715").PN. OR ("7288446").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 17:36 |
| S22 | 6 | ("3849678" \| "5132541" \| "5448099").PN. OR ("6774448").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 17:41 |
| S23 | 10 | ("20030160250" \| "20030185135" \| "4864119" \| "5451769" \| "6236033").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 17:47 |
| S24 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/11 19:06 |
| S25 | 3 | "2003287656" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/11 19:08 |
| S26 | 10 | ("2629800" \| "3448351").PN. OR ("4864119").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:11 |

| S27 | 13 | ("4037244" \| "4438331" \| "4525732" \| "4782222" \| "4803695" \| "4806997" \| "4864119" \| "4891815" \| "4894526" \| "5023685" \| "5028971" \| "5049965" \| "5150185").PN. OR ("5554882").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:12 |
|-----|-----|-----|-----|-----|-----|-----|
| S28 | 2 | ("20030185135").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/11 19:17 |
| S29 | 4 | ("2003/0185135").URPN. | USPAT | OR | OFF | 2008/12/11 19:17 |
| S30 | 0 | ("2003/160250").URPN. | USPAT | OR | OFF | 2008/12/11 19:21 |
| S31 | 2 | ("2003160250").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/11 19:21 |
| S32 | 2 | "5451769".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/11 19:22 |
| S33 | 30 | ("2668184" \| "2897421" \| "2898525" \| "3440427" \| "3622844" \| "4593304" \| "4626884" \| "4807006" \| "4999695" \| "5045681" \| "5214275" \| "5222162" \| "5222175").PN. OR ("5451769").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:22 |
| S34 | 0 | "2000222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:29 |
| S35 | 0 | "200222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:30 |
| S36 | 0 | "2000222765" | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/11 19:30 |
| S37 | 339681 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 19:57 |

| S38 | 1263 | S37 and (scatter$3 with metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 19:58 |
| S39 | 339681 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 23:16 |
| S40 | 1263 | S39 and (scatter$3 with metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 23:16 |
| S41 | 36 | S40 and ((impurity dop$3) with (lower higer greater)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/11 23:16 |
| S42 | 16775 | S39 and (optical near fiber) and (amplifier or (pre near amplifier)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 00:51 |
| S43 | 104 | S40 and (optical near fiber) and (amplifier or (pre near amplifier)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 00:52 |
| S44 | 3 | ("20010004348" \| "20030066944").PN. OR ("6689545").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/12 01:06 |
| S45 | 339681 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 11:47 |
| S46 | 152 | S45 and ((scatter$3 with metal) same (aperture hole open$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 11:47 |

| S47 | 121677 | (photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 12:03 |
|-----|--------|------|------|-----|-----|------|
| S48 | 75 | S47 and ((scatter$3 with metal) same (aperture hole open$3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 12:04 |
| S49 | 121677 | (photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 14:55 |
| S50 | 13835 | S49 and (optic$2 near fiber) and (amplifier preamplifier) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 14:55 |
| S51 | 739 | S50 and ((conduct$3 or metal) with (aperture open $3)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 14:58 |
| S52 | 62 | S51 and (scatter$3 same metal) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 14:58 |
| S53 | 4 | ("20020048301").PN. OR ("6741629").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/12 15:23 |
| S54 | 339681 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad< "20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 15:36 |
| S55 | 21452 | S54 and (optic$2 near fiber) and (amplifier preamplifier) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 15:36 |

| S56 | 2851 | S54 and (((optic$2 near fiber) and (amplifier preamplifier)) same (case package)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 15:39 |
|-----|------|------|------|------|------|------|
| S57 | 1327 | S56 and coupler | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 15:39 |
| S58 | 5063 | photodiode and coupler and amplifier and source | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 16:00 |
| S59 | 4631 | S58 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 16:01 |
| S60 | 2460 | S49 and (optic$2 near fiber) and ((amplifier preamplifier) with (amplif $4 with electrical with signal)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 16:26 |
| S61 | 97011 | (photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 16:33 |
| S62 | 1926 | S61 and (optic$2 near fiber) and ((amplifier preamplifier) with (amplif $4 with electrical with signal)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 16:33 |
| S63 | 13 | ("4037244" \| "4438331" \| "4525732" \| "4782222" \| "4803695" \| "4806997" \| "4864119" \| "4891815" \| "4894526" \| "5023685" \| "5028971" \| "5049965" \| "5150185").PN. OR ("5554882").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/12/12 16:42 |

| S64 | 2998 | photodiode and coupler and amplifier and (light near source) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:04 |
| S65 | 0 | photodiode and coupler and (pre-amplifier with amplify with electrical with signal) and (light near source) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:05 |
| S66 | 1 | photodiode and coupler and (pre-amplifier with amplify with electrical with signal) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:06 |
| S67 | 103 | S61 and (optic$2 near fiber) and ((preamplifier) with (amplif$4 with electrical with signal)) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:07 |
| S68 | 23 | S61 and (optic$2 near fiber) and ((preamplifier) with (amplif$4 with electrical with signal)) and (coupler) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:17 |
| S69 | 128 | S61 and (optic$2 near fiber) and (((preamplifier same (photodiode photo near detector)) same (case package enclosure))) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:34 |
| S70 | 16 | S69 and coupler | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/12/12 17:49 |
| S71 | 2 | ("20040151442").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2008/12/12 19:32 |
| S73 | 273978 | (((photo light) near3 (sensor detector)) photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:12 |

| S74 | 423741 | (conduct$3 or metal) near4 (aperture open$3 hole) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:13 |
|---|---|---|---|---|---|---|
| S75 | 917 | S73 and S74 and (periodic waveguide) and wavelength | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:15 |
| S76 | 905 | S75 and (incident (ray light)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:16 |
| S77 | 706 | S76 and semiconductor | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:17 |
| S78 | 1407 | (aperture open$3 hole) with wavelength with (incident near2 (light ray)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:20 |
| S79 | 22 | S77 and S78 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:20 |
| S80 | 9 | ("20010006435" \| "20020001283" \| "20030112542" \| "20040131001" \| "6307827" \| "6359852" \| "6445453" \| "6614742" \| "6818907").PN. OR ("7085220").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/10 10:30 |
| S81 | 390 | (schottky near2 (photodiode photo-diode)) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:37 |

| S82 | 156 | S81 and (semiconductor near2 (film layer)) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:38 |
| S83 | 138 | S82 and (metal or conductive) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:38 |
| S84 | 117 | S83 and (aperture open$3 hole) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:39 |
| S85 | 21 | S84 and (wavelength with (incident near2 light ray)) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 10:39 |
| S86 | 97291 | (photodiode photo-diode) and @ad< "20040405" | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:14 |
| S87 | 128 | S86 and S78 | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:14 |
| S88 | 13 | S87 and periodic | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:16 |
| S89 | 3430 | (aperture open$3 hole) with (wavelength with (incident near2 light ray)) | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:19 |
| S90 | 1 | S81 and S89 | US-PGPUB; USPAT; USOCR; FPRS, EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:20 |

| S91 | 97291 | (photodiode photo-diode) and @ad<"20040405" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:21 |
|-----|-------|---------------------------------------------|--------------------------------------------------------|-----|-----|------------------|
| S92 | 211 | S91 and S89 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 11:21 |
| S93 | 5 | ((junichi near fujikata) or (hitoshi near yokota) or (tsutomu near ishi)).in. and (photodiode photo $1diode) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/10 14:10 |
| S94 | 1 | "2003529438" | US-PGPUB; USPAT; JPO; DERWENT | OR | ON | 2009/06/10 14:16 |
| S95 | 1 | ("2003529438").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 14:17 |
| S96 | 1 | ("2003529438").PN. | DERWENT | OR | OFF | 2009/06/10 14:17 |
| S97 | 3 | ("2004247640").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 14:20 |
| S98 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 14:30 |
| S99 | 0 | ("6236033.pn.").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 14:30 |
| S100 | 2 | "6236033".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/10 14:30 |

| S101 | 2 | "4864119".pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/06/10<br>14:53 |
|------|---|---------------|------|----|-----|------------|
| S102 | 10 | ("2629800" \| "3448351").<br>PN. OR ("4864119").URPN. | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2009/06/10<br>14:55 |
| S103 | 13 | (near$1field near4<br>(photodiode photo-diode)<br>and @ad<"20040405" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/11<br>13:24 |
| S104 | 49 | (near$1field with<br>(photodiode photo-diode))<br>and @ad<"20040405" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/11<br>13:32 |
| S105 | 36 | S104 not S103 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/11<br>13:32 |
| S106 | 2 | "6236033".pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/12<br>12:15 |
| S107 | 2 | "6649901".pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/12<br>12:16 |
| S108 | 2 | "6285020".pn. | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/12<br>12:16 |
| S109 | 166 | (photodiode photo$1diode)<br>and (first near optical near<br>fiber) and (second near<br>optical near fiber) and<br>(light near source) and<br>board and<br>@ad<"20061003" | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/22<br>01:17 |

| S110 | 2 | S109 and (first near optical near coupler) and (second near optical near coupler) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 01:19 |
| S111 | 29 | S109 and (optical near coupler) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 01:25 |
| S112 | 10 | (photodiode photo$1diode photodetector photo $1detector) and (first near optical near fiber) and (second near optical near fiber) and (light near source) and (mount$3 near board) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 01:47 |
| S113 | 2 | ("20030173501").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/22 02:12 |
| S114 | 6 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) near4 (Silver Ag Gold Au)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 02:44 |
| S115 | 4 | S114 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 02:45 |
| S116 | 6 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) with (Silver Ag Gold Au)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 02:50 |
| S117 | 13 | (photodiode photo$1diode photodetector photo $1detector) and ((Scatter $3 adj (layer film member)) same (Silver Ag Gold Au)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 02:51 |

| S118 | 282 | (photodiode photo$1diode photodetector photo $1detector) and (Scatter$3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 02:55 |
| S119 | 14 | (photodiode photo$1diode photodetector photo $1detector) with (Scatter $3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 03:22 |
| S120 | 38 | (photodiode photo$1diode photodetector photo $1detector) same (Scatter $3 adj (layer film member)) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 03:25 |
| S121 | 341218 | (((photo light) near3 (sensor detector)) photodiode) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/22 03:37 |
| S122 | 302626 | (((photo light) near3 (sensor detector)) photodiode) and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/06/22 03:37 |
| S123 | 133 | S121 same (Scatter$3 adj (layer film member)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 03:39 |
| S124 | 121 | S123 and @ad<"20061003" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/06/22 03:39 |

**1/16/2010 6:39:17 PM**
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